



Control Number: 50595



Item Number: 6

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## Public Utility Commission of Texas

### Employee Training Report Required by 16 Texas Admin. Code § 25.97(d)

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**PROJECT NO.** 50595

**AFFECTED ENTITY:** LAMB COUNTY ELEC COOP, INC.

#### General Information

Pursuant to 16 Texas Admin. Code § 25.97(d)(2), not later than the 30th day after the date an affected entity finalizes a material change to a document or training program, the affected entity must submit an updated report. The first report must be submitted not later than May 1, 2020.

#### Instructions

Answer all questions, fill-in all blanks, and have the report notarized in the Affidavit.

#### Affidavit

A representative of the affected entity must swear to and affirm the truthfulness, correctness, and completeness of the information provided by attaching a signed and notarized copy of the Affidavit provided with this form.

#### Filing Instructions

Submit four copies (an original and three copies) of the completed form and signed and notarized Affidavit to:

Central Records Filing Clerk  
Public Utility Commission of Texas  
1701 N. Congress Avenue  
P.O. Box 13326  
Austin, Texas 78711-3326  
Telephone: (512) 936-7180

**1. Provide a summary description of hazard recognition training documents you provide your employees related to overhead transmission and distribution facilities.****DISTRIBUTION:**

Summary of TEC Safety Meeting HB4150 Training (two- to four-hour course)

The training will include an overview of HB 4150 with an explanation of requirements for the utilities operating in Texas. It will also include hazard recognition training as it applies to the requirements of compliance with the National Electric Safety Code (NESC). This will include clearance requirements for lands, roadways, and waterways. The employee training will define to whom, when and how the bill applies. As well as explanation of guidelines, requirements, and deadlines for filing reports. A portion of the course will include hazard recognition and an explanation of clearance guideline requirements preparing employees to proactively recognize and report hazards and clearance related issues on their utilities' system.

**Course Outline:**

1. HB 4150 Review
2. Hazard Recognition
3. NESC Clearance Guideline Requirements

**Course Materials:**

1. Power Point Presentation
2. Presentation Material Handouts
3. NESC Clearance Handouts
4. HB 4150 Law

**TRANSMISSION:**

Summary of Hazardous Recognition Training for Transmission Facilities (one-hour course to accompany TEC Safety Meeting)

PURA §38.102 requires electric utilities including electric cooperatives and municipally owned utilities to provide hazard recognition training related to overhead transmission and distribution facilities. For the purposes of this training, transmission facilities include those electric facilities operating above 60 kV. One of the challenges to recognizing hazards inherent to transmission facilities is the significant changes in conductor sag for transmission lines. The goal for this training is to educate employees to observe, recognize and report hazardous situations.

**Course Outline:**

1. Definition of a Hazard
2. Hazards to Report
  - a. Non-compliance with NESC
  - b. Failed System Components
  - c. Failure of Warning Lights/Marker Balls
3. Summary of Clearances for Transmission Facilities
4. Recognition of Changes in Conductor Sag for Long Spans
5. Activities near the Line
  - a. Grading
  - b. Crane Operation OSHA 1926.1408(a)
  - c. Scaffold Clearances OSHA 1926.451(f)
  - d. Construction of Adjacent Buildings/Signs
6. Right-of-way Issues
  - a. Danger Trees
  - b. Dead Trees
  - c. Erosion of the Right-of-Way
7. Priorities of Reported Issues
8. Record Keeping Requirements

**Objectives:**

1. Define hazards associated with transmission lines.
2. Identify appropriate distance for cranes from power lines.
3. Identify required clearances for transmission line related to roads and buildings
4. Define a danger tree.

- 2. Provide a summary description of training programs you provide your employees related to the National Electrical Safety Code for construction of electric transmission and distribution lines.**

**DISTRIBUTION:**

**Summary of NESC Clearance Requirements (four-hour C•O•R•E course)**

This course will educate all utility personnel whose positions require a working knowledge of the NESC rules, which can include engineers, line workers and staking technicians.

**Course outline:**

1. Defining sag requirements—Rule 230 2
2. Ground clearances—Table 232-1 and 232-2
3. Clearances to building and signs—Table 234-1
4. Clearances to pools and grain bins—Rule 234E and 234F
5. Joint use clearances—Rule 235, 238, and 239

**TRANSMISSION:**

**Summary of Transmission Webinar for PURA §38.102 (one-hour course to accompany TEC Safety Meeting)**

PURA §38.102 requires electric utilities including electric cooperatives and municipally owned utilities to provide training to employees related to the National Electric Safety Code (NESC) for construction of electric transmission and distribution lines. This webinar discusses the requirements for transmission facilities which are defined as facilities operating above 60 kV. The webinar will not include discussions regarding distribution lines. This training will focus on transmission clearances, strength issues, and access of overhead transmission lines.

**Course Outline:**

1. Maximum Operating Temperature and Sag Requirements for Transmission Conductors
  2. Additional Ground Clearance Requirements for Transmission Lines
    - a. Maximum Operating Voltage
    - b. Elevation above Sea Level
    - c. Electrostatic Effects to Vehicles below the Line.
  3. Additional Clearances from Building/Signs
    - a. Deflection of Insulators
    - b. Deflection of Structures
    - c. Clearance Based on Maximum Operating Voltage
    - d. Limited Electrostatic Effects to Buildings and Signs below the Line
  4. Mid-span Conductor Clearances
  5. Power Lines and Phone Lines Crossing below Transmission Lines
  6. Grade of Construction for Voltages Over 22kV
    - a. Guying Strength Requirements
    - b. Under-build Strength Requirements
  7. Identification of Climable Supporting Structures
- Objectives:**
1. Determine appropriate clearances for transmission lines.
  2. Define maximum sag for determined clearances.
  3. Identify strength requirements for transmission facilities

Affected Entity: LAMB COUNTY ELEC COOP, INC

PROJECT NO. 50595

### AFFIDAVIT

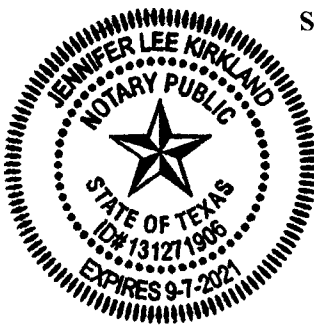
I swear or affirm that I have personal knowledge of the facts stated in this report or am relying on people with personal knowledge, that I am competent to testify to them, and that I have the authority to submit this report on behalf of the affected entity. I further swear or affirm that all statements made in this report are true, correct, and complete.

Michael McDaniel  
Signature

Michael McDaniel  
Printed Name

Manager of Operation Services  
Job Title

LAMB COUNTY ELEC COOP, INC.  
Name of Affected Entity



Sworn and subscribed before me this 31<sup>st</sup> day of March, 20.  
Month Year

Jennifer Lee Kirkland  
Notary Public in and For the State of Texas

My commission expires on 9/7/21



## Public Utility Commission of Texas

### Annual Report

Required by 16 Texas Admin. Code § 25.97(f)

**PROJECT NO.** 50596

**AFFECTED ENTITY:** LAMB COUNTY ELEC COOP, INC.

#### General Information

Pursuant to 16 Texas Admin. Code § 25.97(f)(1), not later than May 1 of each year, each affected entity must submit this report for the preceding calendar year. The first report must be submitted not later than May 1, 2020.

#### Instructions

Answer all questions, fill-in all blanks, and have the report notarized in the affidavit. If you check no in part 1.a, leave parts 1.b-d blank.

Violations resulting from, and incidents, fatalities, or injuries attributable to a violation resulting from, a natural disaster, weather event, or man-made act or force outside of an affected entity's control are not required to be reported.

#### Affidavit

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**1.** This part applies only to an affected entity that owns or operates overhead transmission facilities greater than 60 kilovolts.

a) Does this part 1 apply to you? ☒ Yes ☐ No

b) Provide the number of identified occurrences of noncompliance with Public Utility Regulatory Act (PURA) § 38.004 regarding vertical clearance requirements of the National Electrical Safety Code (NESC) for overhead transmission facilities.

There were no identified occurrences of noncompliance with PURA 38.004 regarding vertical clearance requirements of the NESC for overhead transmission facilities.

- c) Do you have actual knowledge that any portion of your transmission system is not in compliance with PURA § 38.004 regarding vertical clearance requirements of the NESC for overhead transmission facilities?

None.

- d) Do you have actual knowledge of any violations of easement agreements with the United States Army Corps of Engineers relating to PURA § 38.004 regarding vertical clearance requirements of the NESC for overhead transmission facilities?

None.



2. This part applies to an affected entity that owns or operates overhead transmission facilities greater than 60 kilovolts or distribution facilities greater than 1 kilovolt.

- a) Provide the number of fatalities or injuries of individuals other than employees, contractors, or other persons qualified to work in proximity to overhead high voltage lines involving transmission or distribution assets related to noncompliance with the requirements of PURA § 38.004.

There have been zero fatalities or injuries including employees, contractors, or other qualified persons involving transmission or distribution assets related to noncompliance of the requirements of PURA 38.004.

**Affected Entity:** LAMB COUNTY ELEC COOP, INC.

**PROJECT NO.** 50596

b) Provide a description of corrective actions taken or planned to prevent the reoccurrence of fatalities or injuries described in subpart a), immediately above.

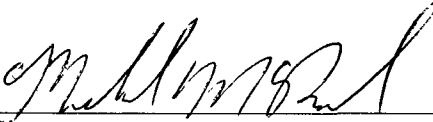
N/A

Affected Entity: LAMB COUNTY ELEC COOP, INC.

PROJECT NO. 50596

## AFFIDAVIT

I swear or affirm that I have personal knowledge of the facts stated in this report or am relying on people with personal knowledge, that I am competent to testify to them, and that I have the authority to submit this report on behalf of the affected entity. I further swear or affirm that all statements made in this report are true, correct, and complete.

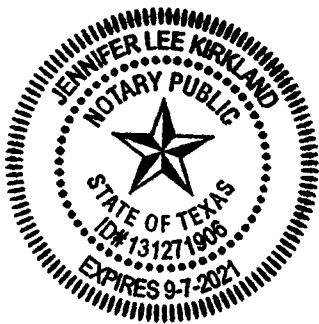
  
Signature

Michael McDaniel  
Printed Name

Manager of Operation Services  
Job Title

LAMB COUNTY ELEC COOP, INC.  
Name of Affected Entity

Sworn and subscribed before me this 31<sup>st</sup> day of March, 20.  
Month Year



Jennifer Lee Kirkland  
Notary Public in and For the State of Texas

My commission expires on 9/7/21



## Public Utility Commission of Texas

### Five-Year Report

Required by 16 Texas Admin. Code § 25.97(e)

**PROJECT NO.** 50594

**AFFECTED ENTITY:** LAMB COUNTY ELEC COOP, INC.

#### General Information

Pursuant to 16 Texas Admin. Code § 25.97(e)(1), not later than May 1 every five years, each affected entity that owns or operates overhead transmission facilities greater than 60 kilovolts must submit this report. The first report must be submitted not later than May 1, 2020.

#### Instructions

Answer all questions, fill-in all blanks, and have the report notarized in the Affidavit.

#### Affidavit

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Telephone: (512) 936-7180

**Affected Entity:** LAMB COUNTY ELEC COOP, INC.

**PROJECT NO.** 50594

**1. Historical five-year reporting period:** 2014-2019

What percentage of overhead transmission facilities greater than 60 kilovolts did you inspect for compliance with the National Electric Safety Code (NESC) relating to vertical clearance in the historical five-year reporting period?

Of the 39 miles of transmission facilities we have visually inspected 100%, 3 times a year, every year. We started measuring vertical clearance Sept. 1 of 2019. We have approximately 10 miles of 69kv inspected.

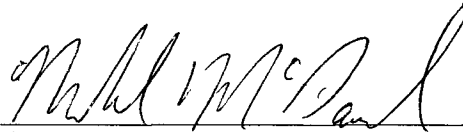
**2. Future five-year reporting period:** 2020-2025

What percentage of overhead transmission facilities greater than 60 kilovolts do you anticipate you will inspect for compliance with the NESC relating to vertical clearance during the future five-year reporting period beginning on January 1 of the year in which this report is submitted?

We plan on visually inspecting 100%, 3 times a year. Vertical clearance inspection will be completed by the end of 2020.

**AFFIDAVIT**

I swear or affirm that I have personal knowledge of the facts stated in this report or am relying on people with personal knowledge, that I am competent to testify to them, and that I have the authority to submit this report on behalf of the affected entity. I further swear or affirm that all statements made in this report are true, correct, and complete.



Signature

Michael McDaniel

Printed Name

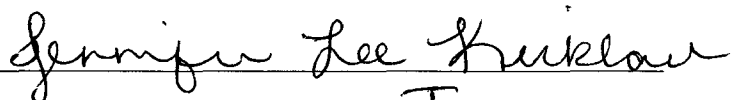
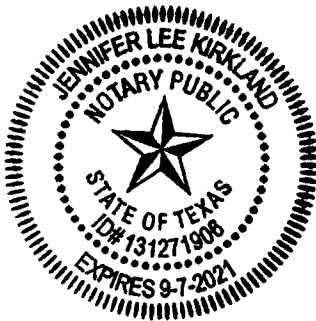
Manager of Operation Services

Job Title

LAMB COUNTY ELEC COOP, INC.

Name of Affected Entity

Sworn and subscribed before me this 31<sup>st</sup> day of March, 20.  
Month Year

Notary Public in and For the State of TexasMy commission expires on 9/7/21